

TERMINAL PRESSING INSPECTION DEVICE FOR SOLDERLESS TERMINAL WIRE

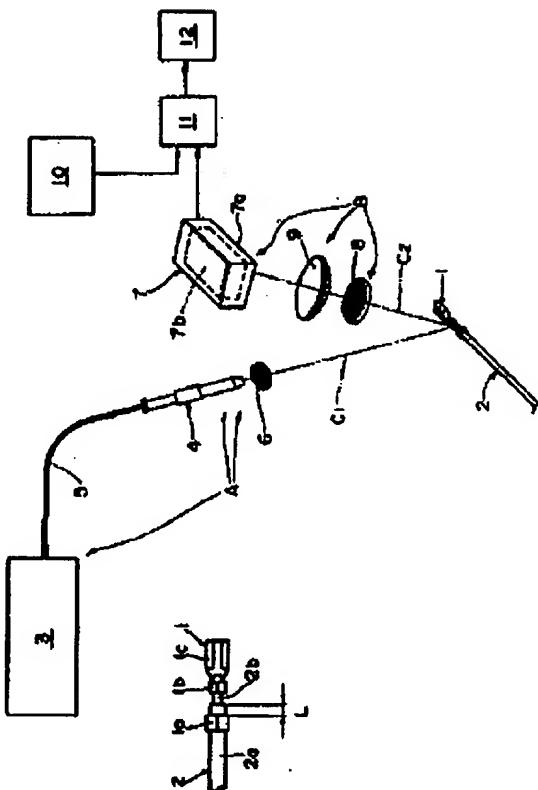
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Abstract of JP57175942

PURPOSE: To inspect exactly solderless terminals for their electric conductivity by interposing polarizing plates having direction difference of 90 deg. to each other between a light source of the same color as the color of electric wire covering and an object to be irradiated and between the object to be irradiated and a light receiving plane.

CONSTITUTION: The terminal 1 of an electric wire with a solderless terminal is fixed with the ends of its grasping sections 1a and 1b pointing upwards. A projection system A that consists of a light source 3 with the light of the same color as that of the coating 2 of the wire, light fiber 5 and a cylindrical body enclosing a light collecting lens emits light to the solderless terminal through a polarizing plate 6, and its reflection light reaches a light receiving plane 7a through the polarizing plate 6 and a polarizing plate 8 that 90 deg. difference of direction to each other from the plate 6. In this case, only the reflected light being reflected from the covered portion 2a having unevenness on the surface thereof reaches the light receiving plane 7a. The reflection light scans in the direction of the axis of the wire by means of a scan means 7b to form continuous wave shape signal, and this signal is compared with the information about defective products that is before-hand stored in a memory 10 to reach judgement 11 and as needed warning is given by means of a means 12.



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